

TABLA DE PRESION - TEMPERATURA

Condiciones de Saturación

444		Rojo = Pulg. Hg. Negro = Vapor (ps							
-44	-							R-410A	
421 443 448 122 0.8 160 3.4 46 100								6.4 7.5	
-41								8.4 10.1	
198	-41	-41.8	12.0	0.8	16.0	3.4	4.6	10.5	
1-36								11.6 12.7	
-36								13.9 15.2	
34	-36	-32.8	7.3	3.4	11.7	7.7	9.4	16.5	
32								17.8 19.1	
-31								20.6 22.0	
2-99	-31	-23.8	1.6	7.9	6.5	12.8	15.1	23.5	
-27 -16.6								25.1 26.7	
2-66								28.4	
-24 -11.2 3.9 15.6	-26	-14.8	2.5	13.2	0.1	18.8	21.9	31.8	
-22								35.7	
-21								37.5 39.5	
-19	-21	-5.8	6.3	19.4	3.7	25.8	29.5	41.5	
-17								43.7 45.8	
-17	-18	-0.4	8.9	23.7	6.3	30.5	34.8	48.1	
1-15	-17	1.4	9.9	25.2	7.2	32.2	36.6	50.4	
-13	-15	5.0	11.8	28.3	9.1	35.7	40.4	55.2	
-12								57.7 60.3	
1-10	-12	10.4	14.9	33.3	12.3	41.3	46.7	62.9	
B	-10	14.0	17.1	36.8	14.5	45.3	51.0	68.5	
1-7								71.3 74.3	
5-5	-7	19.4	20.6	42.6	18.2	51.6	58.0	77.3	
-3	-5	23.0	23.2	46.6	20.8	56.2	62.9	83.6	
-2			24.5					86.9 90.2	
0 32.0 30.1 57.7 28.0 68.5 76.4 10.0 1 33.8 31.6 60.1 29.6 71.1 79.3 104. 2 35.6 33.1 62.5 31.2 73.8 82.3 108. 3 37.4 34.7 65.0 32.8 76.6 85.2 112. 5 41.0 37.9 70.2 36.3 82.3 91.6 120. 6 42.8 39.6 72.9 38.1 85.2 94.8 124. 7 44.6 41.3 75.6 39.9 88.2 98.1 128. 8 46.4 43.1 78.4 41.8 91.3 101.5 133. 9 48.2 44.9 81.3 43.7 94.4 105.0 137. 10 50.0 46.7 84.2 45.7 97.6 108.6 142. 11 51.8 48.6 87.2 47.7	-2	28.4	27.2	53.1	25.0	63.4	70.9	93.7	
2 35.6 33.1 62.5 31.2 73.8 82.3 108. 3 37.4 34.7 65.0 32.8 76.6 85.2 112. 4 39.2 36.3 67.6 34.5 79.4 88.4 116. 5 41.0 37.9 70.2 36.3 82.3 91.6 120. 6 42.8 39.6 72.9 38.1 85.2 94.8 124. 7 44.6 41.3 75.6 39.9 88.2 98.1 128. 8 46.4 43.1 78.4 41.8 91.3 101.5 133. 9 48.2 44.9 81.3 43.7 94.4 105.0 137. 10 50.0 46.7 84.2 45.7 97.6 108.6 142. 11 51.8 48.6 87.2 47.7 100.9 112.2 146. 12 53.6 50.6 90.3 49.8	0			57.7		68.5	76.4	100.8	
3 37.4 34.7 65.0 32.8 76.6 85.2 112. 4 39.2 36.3 67.6 34.5 79.4 88.4 116. 5 41.0 37.9 70.2 36.3 82.3 91.6 120. 6 42.8 39.6 72.9 38.1 85.2 94.8 124. 7 44.6 41.3 75.6 39.9 88.2 98.1 128. 8 46.4 43.1 78.4 41.8 91.3 101.5 133. 9 48.2 44.9 81.3 43.7 94.4 105.0 137. 10 50.0 46.7 84.2 45.7 97.6 106.0 142. 11 51.8 48.6 87.2 47.7 100.9 112.2 146.6 12 53.6 50.6 90.3 49.8 104.2 115.8 151. 13 55.4 52.5 93.4 52.0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>104.5 108.3</td>								104.5 108.3	
5 41.0 37.9 70.2 36.3 82.3 91.6 120.6 6 42.8 39.6 72.9 38.1 85.2 94.8 124. 7 44.6 41.3 75.6 39.9 88.2 98.1 128. 8 46.4 43.1 78.4 41.8 91.3 101.5 133. 9 48.2 44.9 81.3 43.7 94.4 105.0 137. 10 50.0 46.7 84.2 45.7 97.6 108.6 142. 11 51.8 48.6 87.2 47.7 100.9 112.2 146. 12 53.6 50.6 90.3 49.8 104.2 115.8 151. 12 53.6 50.6 90.3 49.8 104.2 115.8 156. 14 57.2 54.5 96.6 54.2 111.1 123.5 161. 15 59.0 56.6 99.9	3	37.4	34.7	65.0	32.8	76.6	85.2	112.2	
7 44.6 41.3 75.6 39.9 88.2 98.1 128.8 8 46.4 43.1 78.4 41.8 91.3 101.5 133.3 10 50.0 46.7 84.2 45.7 97.6 108.6 142.1 11 51.8 48.6 87.2 47.7 100.9 112.2 146.1 12 53.6 50.6 90.3 49.8 104.2 115.8 155.1 13 55.4 52.5 93.4 52.0 107.6 119.8 156.1 14 57.2 54.5 96.6 54.2 111.1 123.5 161.1 15 59.0 56.6 99.9 56.4 114.6 127.6 166.6 60.8 58.7 103.3 58.7 118.2 131.5 172. 17 62.6 60.9 106.7 61.1 121.9 135.7 177. 18 64.4 63.1 110.2 63	5	41.0	37.9	70.2	36.3	82.3	91.6	116.2 120.3	
8 46.4 43.1 78.4 41.8 91.3 101.5 133. 9 48.2 44.9 81.3 43.7 94.4 105.0 137. 10 50.0 46.7 84.2 45.7 97.6 108.6 142. 11 51.8 48.6 87.2 47.7 100.9 112.2 146. 12 53.6 50.6 90.3 49.8 104.2 115.8 151. 13 55.4 52.5 93.4 52.0 107.6 119.8 156. 14 57.2 54.5 96.6 54.2 111.1 123.5 161. 15 59.0 56.6 99.9 56.4 114.6 127.6 166. 16 60.8 58.7 103.3 58.7 118.2 135.7 172. 17 62.6 60.9 106.7 61.1 121.9 135.7 139.9 182. 19 66.2 65.3								124.5 128.8	
10	8	46.4	43.1	78.4	41.8	91.3	101.5	133.1	
12 53.6 50.6 90.3 49.8 104.2 115.8 151. 13 55.4 52.5 93.4 52.0 107.6 119.8 156. 14 57.2 54.5 99.9 56.4 111.1 123.5 161. 15 59.0 56.6 99.9 56.4 111.1 123.5 161. 16 60.8 58.7 103.3 58.7 118.2 131.5 172. 17 62.6 60.9 106.7 61.1 121.9 135.7 177. 18 64.4 63.1 110.2 63.5 125.7 139.9 182. 19 66.2 65.3 113.7 65.9 129.5 144.3 188. 20 68.0 67.6 117.4 68.5 133.4 148.6 194. 21 69.8 69.9 121.1 71.1 137.3 153.1 199. 22 71.6 72.3 124	10	50.0	46.7	84.2	45.7	97.6	108.6	137.6 142.2	
13 55.4 52.5 93.4 52.0 107.6 119.8 156. 14 57.2 54.5 96.6 54.2 111.1 123.5 161. 15 59.0 56.6 99.9 56.4 114.6 127.6 166. 16 60.8 58.7 103.3 58.7 118.2 131.5 172. 17 62.6 60.9 106.7 61.1 121.9 135.7 177. 18 64.4 63.1 110.2 63.5 125.7 139.9 182. 20 68.0 67.6 117.4 68.5 133.4 148.6 194. 21 69.8 69.9 121.1 71.1 137.3 153.1 199. 22 71.6 72.3 124.9 73.7 141.4 157.6 205. 23 73.4 74.8 128.7 76.2 149.8 167.0 228. 24 75.2 77.3 13								146.9 151.7	
15 59.0 56.6 99.9 56.4 114.6 127.6 166 16 60.8 58.7 103.3 58.7 118.2 131.5 172. 17 62.6 60.9 106.7 61.1 121.9 135.7 177. 18 64.4 63.1 110.2 63.5 125.7 139.9 182. 19 66.2 65.3 113.7 66.9 129.5 144.3 188. 20 68.0 67.6 117.4 68.5 133.4 148.6 194. 21 69.8 69.9 121.1 71.1 137.3 153.1 199. 22 71.6 72.3 124.9 73.7 141.4 157.6 205. 23 73.4 74.8 128.7 76.4 145.6 162.4 211. 24 75.2 77.3 132.7 79.2 149.8 167.0 218. 25 77.0 79.8 1	13	55.4	52.5	93.4	52.0	107.6	119.8	156.6	
16 60.8 58.7 103.3 58.7 118.2 131.5 172. 17 62.6 60.9 106.7 61.1 121.9 135.7 177. 18 64.4 63.1 110.2 63.5 125.7 139.9 182.1 19 66.2 65.3 113.7 65.9 129.5 144.3 188. 20 68.0 67.6 117.4 68.5 133.4 148.6 194. 21 69.8 69.9 121.1 71.1 137.3 153.1 199. 22 71.6 72.3 124.9 73.7 141.4 157.6 205. 23 73.4 74.8 128.7 76.4 145.6 162.4 211. 24 75.2 77.3 132.7 79.2 149.8 167.0 218. 25 77.0 79.8 136.7 82.0 154.0 172.0 224. 26 78.8 82.4 <t< td=""><td></td><td>59.0</td><td></td><td></td><td></td><td></td><td></td><td>161.6 166.7</td></t<>		59.0						161.6 166.7	
18 64.4 63.1 110.2 63.5 125.7 139.9 182. 19 66.2 65.3 113.7 65.9 129.5 144.3 188. 20 68.0 67.6 117.4 68.5 133.4 148.6 194. 21 69.8 69.9 121.1 71.1 137.3 153.1 199. 22 71.6 72.3 124.9 73.7 141.4 157.6 205. 23 73.4 74.8 128.7 76.4 145.6 162.4 211. 24 75.2 77.3 132.7 79.2 149.8 167.0 218. 25 77.0 79.8 136.7 82.0 154.0 172.0 224. 26 78.8 82.4 140.8 84.9 158.3 176.9 230. 27 80.6 85.0 145.0 87.9 162.8 182.0 237. 28 82.4 87.7 <td< td=""><td>16</td><td>60.8</td><td>58.7</td><td>103.3</td><td>58.7</td><td>118.2</td><td>131.5</td><td>172.0</td></td<>	16	60.8	58.7	103.3	58.7	118.2	131.5	172.0	
20 68.0 67.6 117.4 68.5 133.4 148.6 194.21 21 69.8 69.9 121.1 71.1 137.3 153.1 199.2 22 71.6 72.3 124.9 73.7 141.4 157.6 205.2 23 73.4 74.8 128.7 76.4 145.6 162.4 211. 24 75.2 77.3 132.7 79.2 149.8 167.0 218. 25 77.0 79.8 136.7 82.0 154.0 172.0 224. 26 78.8 82.4 140.8 84.9 158.3 176.9 230. 27 80.6 85.0 145.0 87.9 162.8 182.0 237. 28 82.4 87.7 149.2 90.9 167.3 187.2 244. 29 84.2 90.5 153.5 94.0 172.0 192.4 251. 30 86.0 93.3	18	64.4	63.1	110.2	63.5	125.7	139.9	182.8	
21 69.8 69.9 121.1 71.1 137.3 153.1 199. 22 71.6 72.3 124.9 73.7 141.4 157.6 205. 23 73.4 74.8 128.7 76.4 145.6 162.4 211. 24 75.2 77.3 132.7 79.2 149.8 167.0 218. 25 77.0 79.8 136.7 82.0 154.0 172.0 224. 26 78.8 82.4 140.8 84.9 158.3 176.9 230. 27 80.6 85.0 145.0 87.9 162.8 182.0 237. 28 82.4 87.7 149.2 90.9 167.3 187.2 244. 29 84.2 90.5 153.5 94.0 172.0 197.8 258. 31 87.8 96.2 162.5 100.4 181.4 203.3 265. 32 89.6 99.1 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>188.4 194.1</td></t<>								188.4 194.1	
23 73.4 74.8 128.7 76.4 145.6 162.4 211. 24 75.2 77.3 132.7 79.2 149.8 167.0 218. 25 77.0 79.8 136.7 82.0 154.0 172.0 224. 26 78.8 82.4 140.8 84.9 158.3 176.9 230. 27 80.6 85.0 145.0 87.9 162.8 182.0 237. 28 82.4 87.7 149.2 90.9 167.3 187.2 244.2 29 84.2 90.5 153.5 94.0 172.0 192.4 251. 30 86.0 93.3 158.0 97.2 176.6 197.8 258. 31 87.8 96.2 162.5 100.4 181.4 203.3 265. 32 89.6 99.1 167.2 103.7 186.3 209.0 272. 33 91.4 102.1	21	69.8	69.9	121.1	71.1	137.3	153.1	199.9	
25 77.0 79.8 136.7 82.0 154.0 172.0 224. 26 78.8 82.4 140.8 84.9 158.3 176.9 230. 27 80.6 85.0 145.0 87.9 162.8 182.0 237. 28 82.4 87.7 149.2 90.9 167.3 187.2 244. 29 84.2 90.5 153.5 94.0 172.0 192.4 251. 30 86.0 93.3 158.0 97.2 176.6 197.8 258. 31 87.8 96.2 162.5 100.4 181.4 203.3 265. 32 89.6 99.1 167.2 103.7 186.3 209.0 272. 33 91.4 102.1 172.0 107.1 191.3 214.6 279. 34 93.2 105.1 176.8 110.5 196.2 220.4 287. 35 95.0 108.2								211.9	
25 77.0 79.8 136.7 82.0 154.0 172.0 224. 26 78.8 82.4 140.8 84.9 158.3 176.9 230. 27 80.6 85.0 145.0 87.9 162.8 182.0 237. 28 82.4 87.7 149.2 90.9 167.3 187.2 244. 29 84.2 90.5 153.5 94.0 172.0 192.4 251. 30 86.0 93.3 158.0 97.2 176.6 197.8 258. 31 87.8 96.2 162.5 100.4 181.4 203.3 265. 32 89.6 99.1 167.2 103.7 186.3 209.0 272. 33 91.4 102.1 172.0 107.1 191.3 214.6 279. 34 93.2 105.1 176.8 110.5 196.2 220.4 287. 35 95.0 108.2	24	75.2	77.3	132.7	79.2	149.8	167.0	218.1	
27 80.6 85.0 145.0 87.9 162.8 182.0 237. 28 82.4 87.7 149.2 90.9 167.3 187.2 244. 29 84.2 90.5 153.5 94.0 172.0 192.4 251. 30 86.0 93.3 158.0 97.2 176.6 197.8 258. 31 87.8 96.2 162.5 100.4 181.4 203.3 265. 32 89.6 99.1 167.2 103.7 186.3 209.0 272. 33 91.4 102.1 172.0 107.1 191.3 214.6 279. 34 93.2 105.1 176.8 110.5 196.2 220.4 287. 35 95.0 108.2 181.5 114.0 201.4 226.4 295. 36 96.8 111.3 186.6 117.6 206.6 232.4 302. 37 98.6 114.6	25	77.0	79.8	136.7	82.0	154.0	172.0	224.4	
29 84.2 90.5 153.5 94.0 172.0 192.4 251. 30 86.0 93.3 158.0 97.2 176.6 197.8 258. 31 87.8 96.2 162.5 100.4 181.4 203.3 265. 32 89.6 99.1 167.2 103.7 186.3 209.0 272. 33 91.4 102.1 172.0 107.1 191.3 214.6 279. 34 93.2 105.1 176.8 110.5 196.2 220.4 287. 35 95.0 108.2 181.5 114.0 201.4 226.4 295. 36 96.8 111.3 186.6 117.6 206.6 232.4 302. 37 98.6 114.6 191.7 121.3 211.9 238.7 310. 38 100.4 117.8 196.8 125.0 217.2 244.9 319. 39 102.2 121.2	27	80.6	85.0	145.0	87.9	162.8	182.0	237.5	
30 86.0 93.3 158.0 97.2 176.6 197.8 258. 31 87.8 96.2 162.5 100.4 181.4 203.3 265. 32 89.6 99.1 167.2 103.7 186.3 209.0 272. 33 91.4 102.1 172.0 107.1 191.3 214.6 279. 34 93.2 105.1 176.8 110.5 196.2 220.4 287. 35 95.0 108.2 181.5 114.0 201.4 226.4 295. 36 96.8 111.3 186.6 117.6 206.6 232.4 302. 37 98.6 114.6 191.7 121.3 211.9 238.7 310. 38 100.4 117.8 196.8 125.0 217.2 244.9 319. 39 102.2 121.2 202.0 128.8 222.7 251.3 327. 40 104.0 12								244.2 251.1	
32 89.6 99.1 167.2 103.7 186.3 209.0 272. 33 91.4 102.1 172.0 107.1 191.3 214.6 279. 34 93.2 105.1 176.8 110.5 196.2 220.4 287. 35 95.0 108.2 181.5 114.0 201.4 226.4 295. 36 96.8 111.3 186.6 117.6 206.6 232.4 302. 37 98.6 114.6 191.7 121.3 211.9 238.7 310. 38 100.4 117.8 196.8 125.0 217.2 224.9 310. 39 102.2 121.2 202.0 128.8 222.7 251.3 327. 40 104.0 124.6 207.4 132.8 228.4 257.8 335. 41 105.8 128.0 212.9 136.7 234.0 264.5 344. 42 107.6 <	30	86.0	93.3	158.0	97.2	176.6	197.8	258.0	
34 93.2 105.1 176.8 110.5 196.2 220.4 287. 35 95.0 108.2 181.5 114.0 201.4 226.4 295. 36 96.8 111.3 186.6 117.6 206.6 232.4 302. 37 98.6 114.6 191.7 121.3 211.9 238.7 310. 38 100.4 117.8 196.8 125.0 217.2 244.9 319. 39 102.2 121.2 202.0 128.8 222.7 251.3 327. 40 104.0 124.6 207.4 132.8 228.4 257.8 335. 41 105.8 128.0 212.9 136.7 234.0 264.5 344. 42 107.6 131.5 218.4 140.8 239.8 271.3 353. 43 109.4 135.1 224.0 145.0 245.6 278.3 362. 44 111.2	32	89.6	99.1	167.2	103.7	186.3	209.0	272.4	
35 95.0 108.2 181.5 114.0 201.4 226.4 295. 36 96.8 111.3 186.6 117.6 206.6 232.4 302. 37 98.6 114.6 191.7 121.3 211.9 238.7 310. 38 100.4 117.8 196.8 125.0 217.2 244.9 319. 39 102.2 121.2 202.0 128.8 222.7 251.3 327. 40 104.0 124.6 207.4 132.8 228.4 257.8 335. 41 105.8 128.0 212.9 136.7 234.0 264.5 344. 42 107.6 131.5 218.4 140.8 239.8 271.3 353. 43 109.4 135.1 224.0 145.0 245.6 278.3 362. 44 111.2 138.8 229.8 149.2 251.7 285.4 371. 45 113.0								279.8 287.4	
37 98.6 114.6 191.7 121.3 211.9 238.7 310. 38 100.4 117.8 196.8 125.0 217.2 244.9 319. 39 102.2 121.2 202.0 128.8 222.7 251.3 327. 40 104.0 124.6 207.4 132.8 228.4 257.8 335. 41 105.8 128.0 212.9 136.7 234.0 264.5 344. 42 107.6 131.5 218.4 140.8 239.8 271.3 353. 43 109.4 135.1 224.0 145.0 245.6 278.3 362. 44 111.2 138.8 229.8 149.2 251.7 285.4 371. 45 113.0 142.5 235.6 153.4 257.8 292.6 380. 46 114.8 146.3 241.7 157.9 263.9 299.9 389. 47 116.6	35	95.0	108.2	181.5	114.0	201.4	226.4	295.1	
39 102.2 121.2 202.0 128.8 222.7 251.3 327. 40 104.0 124.6 207.4 132.8 228.4 257.8 335. 41 105.8 128.0 212.9 136.7 234.0 264.5 344. 42 107.6 131.5 218.4 140.8 239.8 271.3 353. 43 109.4 135.1 224.0 145.0 245.6 278.3 362. 44 111.2 138.8 229.8 149.2 251.7 285.4 371. 45 113.0 142.5 235.6 153.4 257.8 292.6 380. 46 114.8 146.3 241.7 157.9 263.9 299.9 389. 47 116.6 150.1 247.7 162.4 270.3 307.4 399. 48 118.4 154.0 253.9 166.9 276.7 315.0 408. 49 120.2	37	98.6	114.6	191.7	121.3	211.9	238.7	310.9	
40 104.0 124.6 207.4 132.8 228.4 257.8 335. 41 105.8 128.0 212.9 136.7 234.0 264.5 344. 42 107.6 131.5 218.4 140.8 239.8 271.3 353. 43 109.4 135.1 224.0 145.0 245.6 278.3 362. 44 111.2 138.8 229.8 149.2 251.7 285.4 371. 45 113.0 142.5 235.6 153.4 257.8 292.6 380. 46 114.8 146.3 241.7 157.9 263.9 299.9 389. 47 116.6 150.1 247.7 162.4 270.3 307.4 399. 48 118.4 154.0 253.9 166.9 276.7 315.0 408. 49 120.2 158.0 260.2 171.5 283.2 322.8 418. 50 122.0								319.0 327.3	
42 107.6 131.5 218.4 140.8 239.8 271.3 353. 43 109.4 135.1 224.0 145.0 245.6 278.3 362. 44 111.2 138.8 229.8 149.2 251.7 285.4 371. 45 113.0 142.5 235.6 153.4 257.8 292.6 380. 46 114.8 146.3 241.7 157.9 263.9 299.9 389. 47 116.6 150.1 247.7 162.4 270.3 307.4 399. 48 118.4 154.0 253.9 166.9 276.7 315.0 408. 49 120.2 158.0 260.2 171.5 283.2 322.8 418. 50 122.0 162.0 266.7 176.3 289.7 330.8 428.	40	104.0	124.6	207.4	132.8	228.4	257.8	335.7 344.3	
44 111.2 138.8 229.8 149.2 251.7 285.4 371. 45 113.0 142.5 235.6 153.4 257.8 292.6 380. 46 114.8 146.3 241.7 157.9 263.9 299.9 389. 47 116.6 150.1 247.7 162.4 270.3 307.4 399. 48 118.4 154.0 253.9 166.9 276.7 315.0 408. 49 120.2 158.0 260.2 171.5 283.2 322.8 418. 50 122.0 162.0 266.7 176.3 289.7 330.8 428.	42	107.6	131.5	218.4	140.8	239.8	271.3	353.1	
45 113.0 142.5 235.6 153.4 257.8 292.6 380. 46 114.8 146.3 241.7 157.9 263.9 299.9 389. 47 116.6 150.1 247.7 162.4 270.3 307.4 399. 48 118.4 154.0 253.9 166.9 276.7 315.0 408. 49 120.2 158.0 260.2 171.5 283.2 322.8 418. 50 122.0 162.0 266.7 176.3 289.7 330.8 428.								362.0 371.0	
47 116.6 150.1 247.7 162.4 270.3 307.4 399. 48 118.4 154.0 253.9 166.9 276.7 315.0 408. 49 120.2 158.0 260.2 171.5 283.2 322.8 418. 50 122.0 162.0 266.7 176.3 289.7 330.8 428.	45	113.0	142.5	235.6	153.4	257.8	292.6	380.2 389.6	
49 120.2 158.0 260.2 171.5 283.2 322.8 418. 50 122.0 162.0 266.7 176.3 289.7 330.8 428.	47	116.6	150.1	247.7	162.4	270.3	307.4	399.2	
50 122.0 162.0 266.7 176.3 289.7 330.8 428.	49	120.2	158.0		171.5		322.8	408.9 418.8	
, , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , ,	50	122.0	162.0	266.7	176.3	289.7	330.8	428.8 439.0	
52 125.6 170.4 279.7 186.2 303.4 347.0 449.	52	125.6	170.4	279.7	186.2	303.4	347.0	449.4	
54 129.2 178.9 293.4 196.3 317.4 364.0 470.	54	129.2	178.9	293.4	196.3	317.4	364.0	460.0 470.7	
								481.6 492.7	
57 134.6 192.4 314.5 212.3 339.5 390.5 504.	57	134.6	192.4	314.5	212.3	339.5	390.5	504.0 515.5	
59 138.2 201.7 329.3 223.3 354.7 409.2 527.	59	138.2	201.7	329.3	223.3	354.7	409.2	527.1	
								539.0 551.0	
62 143.6 216.2 352.5 240.9 378.6 438.4 563.	62	143.6	216.2	352.5	240.9	378.6	438.4	563.2 575.6	
64 147.2 226.4 368.5 253.0 395.3 458.9 588.	64	147.2	226.4	368.5	253.0	395.3	458.9	588.2	
65 149.0 231.6 376.8 259.3 403.7 469.3 600.	65	149.0	231.6	376.8	259.3	403.7	469.3	600.9	
								613.9 627.1	
68 154.4 247.5 402.1 278.9 430.3 502.1 640.	68	154.4	247.5	402.1	278.9	430.3	502.1	640.5	
		156.2 158.0	253.0 258.7	411.0 419.8	285.5 292.3	439.4 448.7		654.1 667.8	
Valores al nivel del mar, agregar 0.5 psig por cada 300 m de altura.									

MEDICION DEL SOBRECALENTAMIENTO DE OPERACION

- 1. Determine la presión de succión con un manómetro preciso a la salida del evaporador. En instalaciones compactas, la presión de succión se puede leer en la conexión de succión del compresor.
- De la tabla de Presión-Temperatura para refrigerantes, determine la temperatura de saturación correspondiente a la presión de succión.
- 3. Mida la temperatura del gas de succión en la ubicación del bulbo remoto. Reste la temperatura de saturación leída en la tabla en el paso No. 2 de la temperatura medida en el paso No. 3. La diferencia es el sobrecalentamiento del gas de succión.

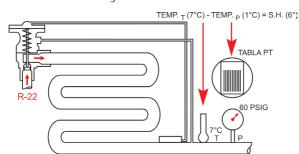




TABLA DE PRESION - TEMPERATURA

Condiciones de Saturación

Rojo = Pulg. Hg. Negro = Vap Negro = Vapor (psig)

The color The			Rojo = Puig. Hg. R-401A		R-402A			NAPOR (ps		D 4070	
45	°C	°F	(MF	239)	(HP	80)	(HP	62)			
44 4,72 122 173 3,76 22 199 1,3 0,07 9,66 43 454 13,1 3 166 4,6 3,0 2,7 2,1 0,4 8,5 442 43,8 104 198 5,5 3,8 3,5 2,7 1,1 7,1 1,7 3,2 442 43,8 104 198 5,5 3,8 3,5 2,7 1,1 7,1 1,7 3,2 442 43,8 104 198 5,5 3,8 3,5 2,7 1,1 7,1 1,7 3,2 49 38,2 7,3 193 83,3 6,6 6,2 5,5 3,4 3,8 6,1 3,3 3,6 2,2 1,1 1,1 1,1 1,1 1,1 1,1 1,1 1,1 1,1	45	40.0									
142 43.6 10.4 15.9 5.5 3.8 3.5 2.9 1.1 7.3	-44	-47.2	12.2	17.3	3.7	2.2	1.9	1.3	0.7	9.6	
141											
34 929 9.8 12.6 10.7 10.1 9.4 7.0 1.0 34 929 14 8.8 13.7 11.8 11.2 10.4 8.8 1.8 33 27.8 0.9 6.6 6.6 16.1 14.1 13.4 12.8 10.0 3.3 30 22.0 2.0 1.3 16.7 16.0 16.0 11.2 15.2 28 18.4 3.5 1.6 21.5 19.2 16.7 16.0 12.2 25.7 26 14.8 5.1 0.5 24.4 22.1 21.1 19.2 17.5 18.3 67.7 8.0 24 11.2 6.9 1.2 2.5 2.5 2.5 2.5 2.5 2.6 2.7 7.6 2.0 2.0 2.0 2.0 2.0 1.0 1.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	-37	-34.6	5.1	11.7	10.4	8.5	8.1	7.3	5.2	0.9	
-34 -24 19.2 1,4 8.8 13,7 11.8 11.2 10.4 8.0 1.8 -32 -25.6 10.6 10.1 1.1 13.4 12.6 10.0 3.2 10.0 2.6 10.1 14.1 13.4 12.6 10.0 3.2 1.2 10.0 3.2 10.0 3.2 10.0 13.2 1.2 2.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2											
322 22.66 0.66 6.61 11.41 13.4 12.6 10.0 3.4 301 22.0 2.0 4.3 18.7 16.6 15.6 15.0 12.2 5.2 202 2.0 2.0 1.7 1.9 1.1 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0											
301											
90 22.0 2.0 4.3 18.7 16.6 15.8 15.0 12.2 52.2 22.9 20.0 2.8 30.0 21.1 17.9 17.1 16.2 13.3 6.1 7.0 22.8 18.4 3.5 1.8 21.5 19.2 18.4 17.5 14.5 7.0 22.7 16.6 4.3 0.4 22.9 20.6 19.7 18.6 15.7 8.0 22.9 20.6 19.7 18.6 15.7 8.0 22.9 20.6 21.9 20.6 21.0 20.2 21.0 20.2 21.0 20.2 21.0 20.2 21.0 20.2 21.0 20.2 21.0 20.2 21.0 20.2 21.0 20.2 21.0 20.2 21.0 20.2 21.0 20.2 21.0 20.2 21.0 20.2 22.5 23.5 23.9 20.0 20.0 21.0 22.2 27.6 8.7 34.4 30.7 22.2 27.0 26.0 22.5 33.5 20.0 20.2 23.9 14.7 22.0 4.0 10.6 50.0 34.2 31.6 30.2 29.3 25.5 16.0 20.2 20.3 30.2 20.3 21.5 16.0 20.2 20.3 20.2 20.3 20.5 16.1 20.2 21.0 23.4 23.6 30.2 29.3 25.5 16.0 20.3 20.2 20.3 21.5 16.0 20.3 20.3 20.2 20.3 21.4 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3											
288 18,4 3,5 1,8 21,5 19,2 18,4 17,5 14,5 7,0 276 14,8 5,1 0,5 24,4 2,1 2,1 19,7 18,8 15,7 8,0 276 14,8 5,1 0,5 24,4 2,1 2,11 20,2 17,0 9,1 276 14,8 5,1 0,5 24,4 2,1 2,11 20,2 17,0 9,1 277 16,6 6,0 12 25,9 23,5 23,9 23,9 19,0 11,2 284 14,2 6,9 19 27,5 28,0 23,9 23,9 19,0 11,2 284 14,2 6,9 19 27,5 28,0 23,9 23,9 19,0 11,2 284 14,2 6,9 14,2 28,0 28,0 23,9 23,0 19,0 11,2 285 14,2 14,2 14,2 14,2 14,2 296 24,4 27,6 28,9 28,6 27,6 23,9 14,7 297 24,0 16,6 5,0 34,2 31,6 30,2 29,3 25,5 16,0 298 14,7 24,2 32,4 29,9 28,6 27,6 23,9 14,7 299 14,8 12,7 6,8 37,9 35,1 33,7 32,6 28,6 18,6 211 14,3 27,7 39,8 37,0 36,4 34,4 30,3 20,0 211 14,3 27,7 38,8 37,0 38,4 34,4 30,3 20,0 211 14,3 27,4 27,4 39,8 37,3 36,2 36,5 24,4 212 14,4 18,8 17,7 47,9 45,0 43,1 42,0 37,4 26,0 213 14,9 8,7 47,9 45,0 43,1 42,0 37,4 26,0 214 14,1 22,2 10,1 13,8 52,3 49,3 47,2 46,1 41,3 39,2 215 15,8 23,7 16,2 57,0 53,8 51,6 50,4 43,3 30,4 216 15,8 23,7 16,2 57,0 53,8 51,6 50,4 43,3 30,3 217 14,4 26,6 18,6 61,8 58,6 56,5 54,3 49,3 36,3 22 28,4 34,4 25,4 75,1 71,6 68,7 67,4 61,4 61,5 23 26,8 31,2 22,6 60,6 60,2 63,5 62,2 66,5 62,2 24 54,6 41,3 35,8 96,0 97,7 57,0 60,3 63,7 25 26,8 37,7 46,0 10,9 10,9 10,5 10,1 25 37,4 41,6 41,1 41,1 41,1 41,1 41,1 25 38,6 61,2 61,5 61,5 61,5 61,5 61,5 61,5 26 26,8 37,7 46,0 61,6 61,6 61,6 61,6 61,6 61,6 61,6 61,6 61,6 61,6 61,6 61,6 61,6 61,6 61,6 61,6 61,6 61,6 61,6 61,6 61,6 61,6 61,6 61,6 61,6 61,6 61,6 61,6 61,6 61,6 61,6 61,6 61,6	-30	-22.0	2.0	4.3	18.7	16.6	15.8	15.0	12.2	5.2	
27 16.6											
244 1-11.2 6.9 1.9 27.5 25.0 23.9 23.0 19.6 11.2 2-22 -7.6 8.7 3.4 30.7 22.2 27.0 26.0 22.5 13.5 24.2 29.9 27.0 26.0 22.5 13.5 24.2 29.9 27.0 26.0 22.5 13.5 24.2 29.9 28.6 27.6 23.9 14.7 20 24.0 10.6 5.0 34.2 31.6 30.2 29.3 25.5 16.0 19.0 22.1 11.7 5.9 30.0 33.3 31.9 30.9 27.0 17.3 11.1 11.7 5.9 30.0 33.3 31.9 30.9 27.0 17.3 11.1 11.7 5.9 30.0 33.3 31.9 30.9 27.0 17.0 17.1 14.1 13.8 7.7 30.8 37.9 35.1 33.7 32.6 28.6 18.6 18.6 18.6 18.6 18.6 18.6 18.6 1	-26	-14.8	5.1	0.5	24.4	22.1	21.1	20.2	17.0	9.1	
23 9-94 7.8 2.6 29.1 26.6 25.5 24.5 21.0 12.4 2-22 7.6 8.7 3.4 30.7 25.2 7.0 26.0 27.6 23.9 14.7 2-20 4.0 10.6 5.0 30.7 25.2 7.0 26.0 27.6 23.9 14.7 2-20 4.0 10.6 5.0 30.7 25.2 7.0 26.0 27.6 23.9 14.7 2-20 4.0 10.6 5.0 32.2 29.3 30.2 29.3 25.5 16.0 1-19 2.2 11.7 5.9 30.0 33.3 31.9 30.9 27.0 7.3 34.6 23.6 14.7 3.0 14.7 3.0 14.7 3.0 15.0 3.2 29.3 36.0 2.2 29.3 14.7 3.0 14.7 3.0 14.7 3.0 15.0 3.2 29.3 36.0 30.2 29.0 17.3 34.6 23.0 36.0 36.0 36.0 36.0 36.0 36.0 36.0 3											
201 -5.88 9.77 4.2 32.4 29.9 28.6 27.6 23.9 14.7											
1-9											
1-19											
	20	1.0	10.0	0.0	04.2	01.0	00.2	20.0	20.0	10.0	
145 5.0											
1-13 8.6 18.5 11.7 47.9 45.0 45.1 42.0 37.4 26.0 1-12 104 19.8 12.7 50.1 47.1 45.1 44.0 39.3 27.4 26.1 11.2 2 21.0 13.8 52.3 49.3 49.3 47.2 46.1 41.3 29.2 11.0 11.0 14.0 22.4 15.0 54.6 51.5 1.5 49.4 46.2 43.3 32.7 49.1 11.2 2 21.0 15.8 23.7 16.2 57.0 53.8 51.6 50.4 45.3 32.7 6.1 11.2 11.2 21.1 19.9 40.6 18.6 61.8 58.6 56.2 53.8 52.6 47.5 34.0 12.7 19.4 26.6 18.6 61.8 58.6 56.2 53.8 52.6 47.5 34.0 12.5 1.5 11.4 19.4 26.6 18.6 61.8 58.6 56.2 53.8 52.3 51.8 19.4 19.7 36.3 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5	-15	5.0	16.1	9.6		40.9	39.2	38.1	33.7	22.9	
	-12	10.4	19.8	12.7	50.1	47.1	45.1	44.0	39.3	27.6	
9 15.8 23.7 16.2 57.0 53.8 51.6 50.4 45.3 32.7 8 17.6 25.1 17.4 59.4 56.2 53.8 52.6 47.5 34.7 7 19.4 26.6 18.6 61.8 56.6 56.2 54.9 49.7 36.3 5 23.0 29.6 21.2 67.0 63.6 16.0 58.5 57.3 51.9 36.3 5 23.0 29.6 21.2 67.0 63.6 16.0 58.5 57.3 51.9 36.3 5 23.0 29.6 21.2 67.0 63.6 16.0 58.5 57.3 51.9 36.3 5 23.0 29.6 21.2 67.0 63.6 16.0 58.5 57.3 51.9 36.3 5 22.0 28.6 32.7 24.0 72.3 68.9 66.0 64.7 59.0 44.3 1 30.2 36.1 26.9 78.0 74.4 71.4 70.0 64.0 48.7 1 30.2 36.1 26.9 78.0 74.4 71.4 70.0 64.0 48.7 1 33.8 39.6 29.9 83.9 80.2 77.0 75.6 69.3 53.2 2 35.6 41.4 31.5 87.0 83.2 79.9 78.4 72.0 55.3 3 37.4 43.3 33.2 90.1 86.3 62.2 79.9 78.4 72.0 55.3 3 37.4 43.3 33.2 90.1 86.3 62.8 81.4 74.8 58.1 4 39.2 45.2 34.9 93.3 89.5 65.8 84.4 77.7 66.6 42.8 49.2 34.9 99.3 89.0 80.2 77.0 75.6 69.3 53.2 5 44.0 47.2 36.6 95.6 92.7 88.9 87.5 80.6 63.2 6 42.8 49.2 38.4 910.0 95.0 92.1 90.6 83.7 68.5 7 44.6 51.2 40.2 103.4 99.4 95.4 93.8 86.7 68.5 8 46.4 53.3 42.1 100.9 102.8 98.7 99.7 18.9 9 31.7 74.2 10 50.0 57.7 46.0 110.5 106.4 102.1 100.5 99.8 80.1 11 51.8 60.0 48.0 117.9 113.7 109.1 107.5 99.8 80.1 12 55.6 62.3 50.0 112.1 117.4 112.7 111.1 103.3 80.1 13 55.4 64.6 52.2 125.6 121.3 116.4 114.8 106.8 86.3 14 57.1 58.0 68.5 56.6 133.7 129.3 124.1 122.4 114.1 103.8 80.1 14 57.2 67.1 54.3 129.8 125.2 120.2 118.5 110.4 89.1 15 50.0 69.5 56.6 133.7 129.3 124.1 122.4 114.1 103.8 80.1 15 60.8 85.7 71.8 159.9 155.3 149.1 147.2 138.0 114.4 17.2 27.1 88.8 57.7 18.7 18.9 153.5 117.1 42.2 138.0 114.4 17.2 28.8 66.1 13.7 19.9 155.3 149.1 147.2 138.0 114.4 17.2 29.8 4.4 17.1 19.7 19.9 13.7 109.1 107.5 99.8 80.1 17.3 13 55.4 64.8 52.2 125.6 121.3 16.4 114.8 106.8 86.3 17.4 57.2 14.8 14.4 17.2 138.0 114.4 1 12.2 138.0 114.4 17.2 25.6 66.6 13.5 124.7 127.1 177.5 122.4 114.1 122.4 114.1 122.4 114.1 122.4 114.1 122.5 114.1 122.4 114.1 122.5 114.1 122.4 114.1 122.5 114.1 122.2 114.1 122.4 114.1 122.8 14.1 122.4 114.1 122.4 114.1 122.5 110.5 114.1 122.9 12.9 12.9 12.9 12.9 12.9 12.9 1	-11	12.2	21.0	13.8	52.3	49.3	47.2	46.1	41.3	29.2	
88 17.6 25.1 17.4 59.4 56.2 53.8 52.6 47.5 34.5 -7 194 20.6 18.6 61.8 56.6 56.2 54.9 49.7 38.3 -5 23.0 29.6 21.2 67.0 63.6 61.0 59.5 57.3 51.9 38.3 -5 23.0 29.6 21.2 67.0 63.6 61.0 59.5 57.3 51.9 38.3 -7 24.8 31.2 22.6 69.6 66.2 65.5 62.2 56.5 42.2 -7 28.4 34.4 25.4 75.1 71.6 68.9 66.0 64.7 59.0 44.2 -1 30.2 30.1 26.9 78.0 74.4 71.4 70.0 64.0 46.5 -1 30.2 38.1 26.9 78.0 74.4 71.4 70.0 64.0 46.5 -1 30.2 38.6 29.9 83.9 80.2 77.0 75.6 69.3 53.3 -1 33.8 39.6 29.9 83.9 80.2 77.0 75.6 69.3 53.6 -1 30.2 33.9 39.0 39.1 80.5 82.8 81.4 74.8 56.6 -1 30.2 34.3 31.5 87.0 83.2 79.9 78.4 72.0 55.6 -1 30.2 34.9 39.3 80.5 85.8 84.4 77.7 60.6 -1 41.4 47.2 36.6 96.6 92.7 89.9 87.5 80.6 83.7 -1 41.6 51.2 40.2 10.9 90.2 89.6 83.7 65.8 -1 41.0 47.2 36.6 96.6 92.7 89.9 87.5 80.6 65.8 -1 41.0 47.2 36.6 96.6 92.7 89.9 87.5 80.6 65.8 -1 41.0 47.2 36.6 96.6 92.7 89.9 87.5 80.6 65.8 -1 41.0 47.2 36.6 96.6 92.7 89.9 87.5 80.6 65.8 -1 41.0 47.2 36.6 96.6 92.7 89.9 87.5 80.0 65.8 -1 41.0 47.2 36.6 96.6 92.7 89.9 87.1 -1 51.8 60.0 48.0 10.5 106.4 102.1 100.5 93.1 -1 51.8 60.0 48.0 101.5 106.4 102.1 100.5 93.1 -1 51.8 60.0 48.0 11.5 106.4 102.1 100.5 93.1 -1 51.8 60.0 48.0 11.7 117.4 112.7 111.1 103.3 83.2 -1 55.5 60.0 60.5 56.6 135.7 103.1 103.3 83.2 -1 55.6 62.3 50.0 121.7 117.4 112.7 111.1 103.3 83.2 -1 60.8 72.1 58.8 137.9 133.4 128.0 128.5 100.4 -1 60.8 72.1 63.8 137.9 133.4 128.0 128.5 100.4 -1 60.8 72.1 63.8 137.9 133.4 128.0 128.5 -1 60.8 60.8 60.5 60.5 60											
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29	27	80.6	103.8	87.7	189.7	184.6	177.2	175.3	165.0	139.2	
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45 113.0 173.4 152.7 301.3 296.0 284.1 281.9 267.4 235.8 46 114.8 178.1 157.0 308.6 303.4 291.0 289.0 274.2 242.3 47 116.6 182.7 161.5 316.0 310.8 298.2 296.1 281.0 249.0 48 118.4 187.5 166.0 323.7 318.3 305.4 303.4 288.0 255.7 49 120.2 192.4 170.7 331.4 326.0 312.8 310.8 295.1 262.5 50 122.0 197.3 175.4 339.2 334.0 320.3 318.3 302.2 269.6 51 123.8 202.3 180.2 347.0 342.0 327.9 326.0 309.6 276.7 52 125.6 207.5 185.0 355.2 350.1 335.7 333.8 317.0 283.9 53 127.4 212.6 190.1 363.4 358.2 343.5 341.7 324.5 291.3 54 129.2 217.9 195.2 371.7 366.6 351.7 349.8 332.2 298.9 55 131.0 223.3 200.2 380.2 375.2 359.8 357.9 340.1 306.7 56 132.8 228.8 205.6 388.8 383.9 368.1 366.3 347.9 314.5 57 134.6 234.3 210.8 397.6 392.7 376.5 374.7 356.0 322.5 58 136.4 240.0 216.3 406.5 401.7 385.0 383.4 364.3 330.6 59 138.2 245.8 221.9 415.6 410.8 393.7 392.1 372.6 338.9 60 140.0 251.6 227.7 424.8 420.0 402.6 401.1 381.0 347.5 61 141.8 257.5 233.3 434.2 429.4 411.6 410.1 389.5 356.0 62 143.6 263.6 239.3 443.6 439.0 420.7 419.3 398.2 364.7 63 145.4 269.7 245.2 453.3 448.8 430.0 428.7 407.1 373.7 64 147.2 276.0 251.3 463.1 458.7 439.4 438.1 416.1 382.7 66 150.8 288.7 263.8 483.1 478.9 480.0 447.8 425.2 392.0 66 150.8 288.7 263.8 483.1 478.9 440.0 447.8 425.2 392.0 66 150.8 288.7 263.8 483.1 478.9 480.0 447.8 425.2 392.0 66 150.8 288.7 263.8 483.1 478.9 460.0 4455.0 438.5 360.7 69 156.2 308.7 283.4 483.1 478.9 460.0 4455.0 438.5 360.7 69 156.2 308.7 283.4 483.1 478.9 460.0 4455.0 434.5 401.4 67 152.6 295.2 270.2 493.4 489.3 443.9 411.0 68 154.4 301.9 276.7		109.4	164.6	144.3	287.1		270.3	268.3	254.3	223.3	
46 114.8 178.1 157.0 308.6 303.4 291.0 289.0 274.2 242.3 47 116.6 182.7 161.5 316.0 310.8 298.2 296.1 281.0 249.0 48 118.4 187.5 166.0 323.7 318.3 305.4 303.4 288.0 255.7 49 120.2 192.4 170.7 331.4 326.0 312.8 310.8 295.1 262.5 50 122.0 197.3 175.4 339.2 334.0 320.3 318.3 302.2 269.6 51 123.8 202.3 180.2 347.0 342.0 327.9 326.0 309.6 276.7 52 125.6 207.5 185.0 355.2 350.1 335.7 333.8 317.0 283.9 53 127.4 212.6 190.1 363.4 356.2 343.5 341.7 324.5 291.3 54 129.2 217.9											
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49 120.2 192.4 170.7 331.4 326.0 312.8 310.8 295.1 262.5 50 122.0 197.3 175.4 339.2 334.0 320.3 318.3 302.2 269.6 51 123.8 202.3 180.2 347.0 342.0 327.9 326.0 309.6 276.7 52 125.6 207.5 185.0 355.2 350.1 335.7 333.8 317.0 283.9 53 127.4 212.6 190.1 363.4 358.2 343.5 341.7 324.5 291.3 54 129.2 217.9 195.2 371.7 366.6 351.7 349.8 332.2 298.9 55 131.0 223.3 200.2 380.2 375.2 359.8 357.9 340.1 306.7 56 132.8 228.8 205.6 388.8 383.9 368.1 366.3 347.9 314.5 57 134.6 234.3	47		182.7	161.5		310.8		296.1	281.0		
50 122.0 197.3 175.4 339.2 334.0 320.3 318.3 302.2 269.6 51 123.8 202.3 180.2 347.0 342.0 327.9 326.0 309.6 276.7 52 125.6 207.5 185.0 355.2 350.1 335.7 333.8 317.0 283.9 53 127.4 212.6 190.1 363.4 358.2 343.5 341.7 324.5 291.3 54 129.2 217.9 195.2 371.7 366.6 351.7 349.8 332.2 298.9 55 131.0 223.3 200.2 380.2 375.2 359.8 357.9 340.1 306.7 56 132.8 228.8 205.6 388.8 383.9 368.1 366.3 347.9 314.5 57 134.6 234.3 210.8 397.6 392.7 376.5 374.7 356.0 322.7 58 136.4 240.0											
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53 127.4 212.6 190.1 363.4 358.2 343.5 341.7 324.5 291.3 54 129.2 217.9 195.2 371.7 366.6 351.7 349.8 332.2 298.9 55 131.0 223.3 200.2 380.2 375.2 358.8 367.9 340.1 306.7 56 132.8 228.8 205.6 388.8 383.9 368.1 366.3 347.9 314.5 57 134.6 234.3 210.8 397.6 392.7 376.5 374.7 356.0 322.5 58 136.4 240.0 216.3 406.5 401.7 385.0 383.4 364.3 330.6 59 138.2 245.8 221.9 415.6 410.8 393.7 392.1 372.6 338.9 60 140.0 251.6 227.7 424.8 420.0 402.6 401.1 381.0 347.5 61 141.8 257.5											
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57 134.6 234.3 210.8 397.6 392.7 376.5 374.7 356.0 322.5 58 136.4 240.0 216.3 406.5 401.7 385.0 383.4 364.3 330.6 59 138.2 245.8 221.9 415.6 410.8 393.7 392.1 372.6 338.9 60 140.0 251.6 227.7 424.8 420.0 402.6 401.1 381.0 347.5 61 141.8 257.5 233.3 434.2 429.4 411.6 410.1 389.5 356.0 62 143.6 263.6 239.3 443.6 439.0 420.7 419.3 398.2 364.7 63 145.4 269.7 245.2 453.3 448.8 430.0 428.7 407.1 373.7 64 147.2 276.0 251.3 463.1 458.7 439.4 438.1 416.1 382.7 65 149.0 282.3		131.0		200.2	380.2		359.8		340.1	306.7	
58 136.4 240.0 216.3 406.5 401.7 385.0 383.4 364.3 330.6 59 138.2 2245.8 221.9 415.6 410.8 393.7 392.1 372.6 338.9 60 140.0 251.6 227.7 424.8 420.0 402.6 401.1 381.0 347.5 61 141.8 257.5 233.3 434.2 429.4 411.6 410.1 389.5 356.0 62 143.6 263.6 239.3 443.6 439.0 420.7 419.3 398.2 364.7 63 145.4 269.7 245.2 453.3 448.8 430.0 428.7 407.1 373.7 64 147.2 276.0 251.3 463.1 458.7 439.4 438.1 416.1 382.7 65 149.0 282.3 257.5 473.1 468.7 449.0 447.8 425.2 392.0 66 150.8 288.7											
59 138.2 245.8 221.9 415.6 410.8 393.7 392.1 372.6 338.9 60 140.0 251.6 227.7 424.8 420.0 402.6 401.1 381.0 347.5 61 141.8 257.5 233.3 434.2 429.4 411.6 410.1 389.5 356.0 62 143.6 263.6 239.3 443.6 439.0 420.7 419.3 398.2 364.7 63 145.4 269.7 245.2 453.3 448.8 430.0 428.7 407.1 373.7 64 147.2 276.0 251.3 463.1 458.7 439.4 438.1 416.1 382.7 65 149.0 282.3 257.5 473.1 468.7 449.0 447.8 425.2 392.0 66 150.8 288.7 263.8 483.1 478.9 460.0 447.8 425.2 392.4 449.4 449.0 447.8 425.2	58	136.4	240.0	216.3	406.5	401.7	385.0	383.4	364.3	330.6	
61 141.8 257.5 233.3 434.2 429.4 411.6 410.1 389.5 356.0 62 143.6 263.6 239.3 443.6 439.0 420.7 419.3 398.2 364.7 63 145.4 269.7 245.2 453.3 448.8 430.0 428.7 407.1 373.7 64 147.2 276.0 251.3 463.1 458.7 439.4 438.1 416.1 382.7 65 149.0 282.3 257.5 473.1 468.7 449.0 447.8 425.2 392.0 66 150.8 288.7 263.8 483.1 478.9 460.0 455.0 434.5 401.4 67 152.6 295.2 270.2 493.4 489.3 443.9 411.0 68 154.4 301.9 276.7 453.5 420.7 69 156.2 308.7 283.4 453.5 420.7 70 158.0 315.6 290.0 463.2 430.7 240res al nivel del mar, agregar 0.5 psig por cada 300 m de altura. tara determinar el sobrecalentamiento use los valores de "Vapor".	59	138.2			415.6		393.7			338.9	
62 143.6 263.6 239.3 443.6 439.0 420.7 419.3 398.2 364.7 63 145.4 269.7 245.2 453.3 448.8 430.0 428.7 407.1 373.7 64 147.2 276.0 251.3 463.1 458.7 439.4 438.1 416.1 382.7 65 149.0 282.3 257.5 473.1 468.7 449.0 447.8 425.2 392.0 66 150.8 288.7 263.8 483.1 478.9 460.0 455.0 434.5 401.4 67 152.6 295.2 270.2 493.4 489.3 443.9 411.0 68 154.4 301.9 276.7 453.5 420.7 69 156.2 308.7 283.4 463.2 430.7 70 158.0 315.6 290.0 473.1 440.7 alores al nivel del mar, agregar 0.5 psig por											
64 147.2 276.0 251.3 463.1 458.7 439.4 438.1 416.1 382.7 65 149.0 282.3 257.5 473.1 468.7 449.0 447.8 425.2 392.0 66 150.8 288.7 263.8 483.1 478.9 460.0 455.0 434.5 401.4 67 152.6 295.2 270.2 493.4 489.3 443.9 411.0 68 154.4 301.9 276.7 453.5 420.7 69 156.2 308.7 283.4 463.2 430.7 70 158.0 315.6 290.0 473.1 440.7 40.7 40.7 40.7 40.7 40.7 40.7 40.	62	143.6	263.6	239.3	443.6	439.0	420.7	419.3	398.2	364.7	
65 149.0 282.3 257.5 473.1 468.7 449.0 447.8 425.2 392.0 66 150.8 288.7 263.8 483.1 478.9 460.0 455.0 434.5 401.4 67 152.6 295.2 270.2 493.4 489.3 443.9 411.0 68 154.4 301.9 276.7 453.5 420.7 69 156.2 308.7 283.4 463.2 430.7 70 158.0 315.6 290.0 473.1 440.7 400.0 447.8 425.2 392.0 434.5 401.4 40.7 400.0 447.8 425.2 392.0 434.5 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4 401.4	63	145.4	269.7	245.2	453.3	448.8	430.0	428.7	407.1	373.7	
66 150.8 288.7 263.8 483.1 478.9 460.0 455.0 434.5 401.4 67 152.6 295.2 270.2 493.4 489.3 443.9 411.0 68 154.4 301.9 276.7 453.5 420.7 70 158.0 315.6 290.0 473.1 440.7 dara determinar el sobrecalentamiento use los valores de "Vapor".	64	147.2	276.0	251.3	463.1	458.7	439.4	438.1	416.1	382.7	
66 150.8 288.7 263.8 483.1 478.9 460.0 455.0 434.5 401.4 67 152.6 295.2 270.2 493.4 489.3 443.9 411.0 68 154.4 301.9 276.7 453.5 420.7 70 158.0 315.6 290.0 473.1 440.7 dara determinar el sobrecalentamiento use los valores de "Vapor".											
68 154.4 301.9 276.7 453.5 420.7 69 156.2 308.7 283.4 463.2 430.7 70 158.0 315.6 290.0 473.1 440.7 alores al nivel del mar, agregar 0.5 psig por cada 300 m de altura. ara determinar el sobrecalentamiento use los valores de "Vapor".	66	150.8	288.7	263.8	483.1	478.9	460.0		434.5	401.4	
69 156.2 308.7 283.4 463.2 430.7 70 158.0 315.6 290.0 473.1 440.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 410.7 41					1	489.3					
70 158.0 315.6 290.0 473.1 440.7 alores al nivel del mar, agregar 0.5 psig por cada 300 m de altura. ara determinar el sobrecalentamiento use los valores de "Vapor".		1		283.4							
ara determinar el sobrecalentamiento use los valores de "Vapor".		158.0	315.6	290.0					473.1		
	Valores al nivel del mar, agregar 0.5 psig por cada 300 m de altura.										
English S.											
					100 V	5.50 00	44140	•			

AJUSTE DEL SOBRECALENTAMIENTO DE LAS TXV										
	Total de Vueltas	Grados de SC por vuelta								
Familia de Válvulas		R-22		R-134a	R-404A / 507		R-410A			
		+20 F	-20 F	+20 F	+20 F	-20 F	+40 F			
TCLE	32	0.8	1.5	1.0	0.5	1.0	N/A			
HF	10	2.2	4.2	3.8	1.8	3.2	N/A			
А	8	3.0	5.0	4.5	2.0	4.0	2.0			
TRAE	10	2.2	4.2	3.8	1.8	3.2	N/A			

Para regresar aproximadamente al ajuste original de fábrica, gire el vástago de ajuste en el sentido contrario del reloj hasta que el resorte esté completamente descargado (que llegue al tope o hasta que suene la "matraca"). Entonces, gírelo de regreso a la mitad del "Total de Vueltas" mostradas en la tabla.